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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/807,557	(03/23/2004	Albert H. M. Reinhardt	073338.0186 (04-50460 FLA	4267
5073	7590	10/30/2006		EXAMINER	
BAKER BC 2001 ROSS			LIANG, REGINA		
SUITE 600				ART UNIT	PAPER NUMBER
DALLAS, T	X 75201	-2980	2629		

DATE MAILED: 10/30/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

-	Application No.	Applicant(s)					
	10/807,557	REINHARDT ET AL.					
Office Action Summary	Examiner	Art Unit					
	Regina Liang	2629					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address							
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N. sely filed the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 23 M	<u>arch 2004</u> .						
·	This action is FINAL . 2b)⊠ This action is non-final.						
•	•						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-21 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-6 and 9-21</u> is/are rejected.							
7)⊠ Claim(s) <u>7 and 8</u> is/are objected to. 8)□ Claim(s) are subject to restriction and/o	r election requirement						
o) Claim(s) are subject to restriction and/o	r election requirement.						
Application Papers							
9) The specification is objected to by the Examine							
10) The drawing(s) filed on <u>23 March 2004</u> is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)	 .						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summary Paper No(s)/Mail D						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 3/23/04,11/21/05.	5) Notice of Informal F 6) Other:	Patent Application					

DETAILED ACTION

Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

2. Claims 15-20 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claims 15-20 although written to include a computer readable medium, however for a logic, i.e., computer program, to be statutory subject is must be claimed as a computer program stored on a computer readable medium as set forth in page 52 of the Interim Guidelines, thus without such the claims are non-statutory in nature.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-5, 9-12, 15-18, 21 are rejected under 35 U.S.C. 102(b) as being anticipated by Kaplan (US 2002/0093483).

As to claims 1 and 21, Kaplan discloses a motion controlled handheld device (100 in Fig. 1) comprising a display having a viewable surface and operable to generate a current image; a motion detection module (10. 11) operable to detect motion of the device within three dimensions and to identify components of the motion in relation to the viewable surface (move or rotate the device 100 about x, y and/or z directions corresponding to components of motion),

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the components comprising a first component (about z direction) parallel to the viewable surface, a second component (about x direction) paralleled to the viewable surface and perpendicular to the first component, and a third component (about y direction) perpendicular to the viewable surface; and a display control module (17 in Fig. 5 for example) operable to display a cursor (pointer 120 in Fig. 1) on the viewable surface, to determine a translation vector (Figs. 3, 4) that is substantially opposite to the sum of the first component and the second component, and to translate the cursor across the viewable surface according to the translation vector in order to substantially maintain the position of the cursor in space with respect to the viewable surface (see sections [0014] and [0017] in which "rotation of PDA 100 about the z axis by an angle a in the counter clockwise direction moves cursor 120 to the right on display 110").

As to claim 2, Kaplan teaches the handheld device having buttons (12-14) for selecting cursor movement or displayed image movement ([0010])

As to claim 3, Kaplan teaches the cursor is frozen when activating a button 14 or a combination of buttons 13 and 14.

As to claims 4, 5, Kaplan teaches the sensitivity gain factor for the movement of cursor is adjustable ([0017]-[0019]), which reads on reduce a magnitude of the translation vector to maintain the cursor within the viewable surface (fine cursor movement would maintain the cursor within the display screen).

Claims 9-12, 15-18, which are method claims corresponding to the above apparatus claims 1-4, are rejected for the same reasons as stated above since such method "steps" are clearly read on by the corresponding "means".

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claims 6, 13, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kaplan in view of Orchard (US 6,834,249).

Kaplan does not explicitly disclose the display control module is operable to detect a value of the third component exceeding a threshold, and in response to the detection, to perform an operation. However, Orchard teaches a handheld device having motion detection sensors for sensing the motion of the device, in response to the sensor reaches a motion threshold, the motion control agent generates instructions or operations to update the current state of the device (col. 4, lines 34-39, col. 7, lines 16-28, 46-65 for example). Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Kaplan to have the feature as taught by Orchard so as to provide a simple way to control the display of content generated within an application and to eliminate the switches.

7. Claims 14, 20 rejected under 35 U.S.C. 103(a) as being unpatentable over Kaplan in view of Feinstein (US 2002/0190947) and Bartlett (US 6,573,883).

Kaplan does not use first to third accelerometers to the motion of device along a first to third axis. However, Fig. 14 of Feinstein teaches a handheld device using first to third

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accelerometer for detecting the motion of the device along x, y and z axis ([0087]). Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the handheld device of Kaplan to use three accelerometers as taught by Feinstein since the three accelerometers measure the acceleration of the device along three independent directions precisely.

Kaplan as modified by Feinstein teaches the device have a plurality of gestures, each gesture defined by a motion of the device with respect to a first position of the device using the accelerations. Kaplan as modified by Feinstein does not explicitly disclose a gesture database. However, Bartlett teaches a handheld device having a gestures database (catalog of gesture commands), a match between the submitted gesture and a gesture command in the catalog serves to identify the submitted gesture command, the gesture command is processed to control the computing device (col. 4, lines 46-65). Thus it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the handheld device of Kaplan as modified by Feinstein to have a gesture database as taught by Bartlett so as to provide a finger-free operation of electronic device and to extend the range of commands available for control of a computing device (col. 2, lines 43-49 of Bartlett).

Allowable Subject Matter

8. Claims 7 and 8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Noguera (US 2003/0038778) teaches a tilt-based pointing for hand-held device.

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Regina Liang whose telephone number is (571) 272-7693. The examiner can normally be reached on Monday-Friday from 8AM to 5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe, can be reached on (571) 272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Regina Liang Primary Examiner Art Unit 2674

10/27/06